

=====

Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=12; day=15; hr=13; min=29; sec=40; ms=566;
]

=====

Application No: 10597813 Version No: 1.0

Input Set:

Output Set:

Started: 2009-12-15 11:09:35.090
Finished: 2009-12-15 11:09:39.431
Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 341 ms
Total Warnings: 158
Total Errors: 2
No. of SeqIDs Defined: 163
Actual SeqID Count: 163

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)

Input Set:

Output Set:

Started: 2009-12-15 11:09:35.090
Finished: 2009-12-15 11:09:39.431
Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 341 ms
Total Warnings: 158
Total Errors: 2
No. of SeqIDs Defined: 163
Actual SeqID Count: 163

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (29)
W 402	Undefined organism found in <213> in SEQ ID (30)
E 257	Invalid sequence data feature in <221> in SEQ ID (101)
E 257	Invalid sequence data feature in <221> in SEQ ID (101)

SEQUENCE LISTING

<110> Bogdahn, Ulrich

<120> Inhibitors of TGF-R signaling for treatment of CNS disorders

<130> HPT-P01374WO

<140> 10597813

<141> 2009-12-15

<150> PCT/EP2005/001298

<151> 2005-02-09

<150> EP 04002846.6

<151> 2004-02-09

<160> 163

<170> PatentIn version 3.3

<210> 1

<211> 89014

<212> DNA

<213> Homo sapiens

<400> 1

cagccacact gtctttaact ctcagccac ccacactgag gagggtgcct agaggttcta 60

tttccaaacc tttgcatgta tctaaaaat ctaataaaa tgagaccttc caccatccaa 120

acagagctga tattctcact accagtcct ctctaattt cctattggc tgaaaataag 180

tagcttcaaa aagtttaaa aaagagatta cttgcagcat taacacttct ttgttgatta 240

acaagttcc tatggagtt taaagctcat actttgttct tgccttgcg gacacaaatt 300

ttctaactgc aaatgggacc tttgtgtccc acattcaaat cctctctagt aatttctgca 360

aaggttgaga aggctggcat gatggagaga acggtaacca tgaggaaagc ttcttgagt 420

aaagcactcc tctctccaaat gcagagggta aaactattaa catataagca aaagaaactt 480

gggctaactg agacccttaa aggagttccc ctttagtcca ataaaaggcc aacttcaaat 540

cttaacacca gataaggtag tcaaaatcat attatatacc cagagaatga ctgcttgaat 600

ggacatttct tacaaggac cttggtagg tgcagatttta attcctagac tggggtccag 660

gtaggcagtg gaaagagcta atgttacag tgagaagtga ggcagcttg taagtgtctc 720

cacacccatca cattttgtga acgtggactg gagataactg aaaaccatct gctatccta 780

cctggggatc cagatttcc tgcaaaatct ccaaataattt ataaagtggc ttcaactttt 840

gaaacgctgt gctgaccaaa caaaacatat gtttagagtg cctgaggtca tagtcctgac 900

aatgatagta ttgtgttagtt gaaatcctct tcatacaggcc aaactgtgct tgagcaatca 960
ggagcccaga aagatggaac ccattgggtgt ttgtatagaa aactagaaaa tcaagtcaag 1020
tgtaatgaaa aagtaaacac gataaagcct agagtgagaa tttgctcctt ttttagaaaaag 1080
gatgaaggct gggagcagag aatagaaca taagtgcagg ggaaagatga aaaaaagaac 1140
aattttcat tagtagatgg tggggcaatc gcatggatgg ggacatctgt tctgatttt 1200
ctgcaaccca tgaaggtaaa aagtgggtt caaaacattc aaggtattaa agatgggta 1260
gagttctaa actaggttga gggagagttt ctaaactagc ccccccagatt tggggcttgg 1320
agcttaatg aaaagtccag gagaataag ggcacacagg aaccccgga acactggtcc 1380
tcaaacagtg ccactgtact tagtccatg gccagaagag aagtgttagg cagggatga 1440
ttatttgca aaagcaagtg caatgtggtc atagctggct gtgagacatg gaggctctt 1500
cctcatgcaa agttcactgt tttacagtca gagaaccact gcatgtgtga ttgtcaaatg 1560
ctaatgctgt catgggtccc ttccttctct gcttggttct ggagttctcc aataaaacca 1620
atttcctggg aatattttagt gttttcctt gtctctttc aaggtatggc tatatatata 1680
gagctataga catatataga tatatatata tatatataaa acatagctat tcataattat 1740
atacaggcat taataaagtg caaatgttat tggctattgt aaaaatcaat ctcatattct 1800
gaggaagtgc taacacagct tattcctatga caatgtcaaa ggcataagaat gctctatgtc 1860
acccactccc tgctgctgtt gtttctgctt atccccacag cttacaggga ggggagtgac 1920
ccccttggtt ttccaggaag catcagttca gggcagctt cctgctgcct ctgttcttg 1980
gtgagagggg cagcctctt ggacatggcc cagcctgccc cagaagagct atttggtagt 2040
gtttagggag ccgtcttcag gaatcttctc ctccgagcag ctccctccccg agaggctgtc 2100
cagatgctcc agctcactga agcggtctgc cacacactgg gctgtgagac gggcctctgg 2160
gtcggtgtcc cagcacttag tcaacgtctc acacaccatc tggatgcctt gttagcggaa 2220
agagatccaa agggcaccat gagttggtgg gctcccgccgaa aggcaaggtg gcctgctgac 2280
cttggtgcta tagtgagtgc aagcagggtc caaaagtgcc tgcatttacatgtgtc 2340
actgagtgcc tgctgctgca ggccagccag ttccatgtgg aaaggggttgtt ggggggtttg 2400
tgctgggtggc agctgtgtc aaaacacctacc atacttttg gctctgggtgc tatctgatca 2460
caataggtcc tgacagcaca atgatcctct gctgggttc tggggtacac taacactccc 2520
aacacctgaa aattccccat gtagtggccc ttaatatcat ttcaacacact ttctatttag 2580
agaagttctc gcttcacagc aaaattgagt ggaaagtaca gagagtttc aaaaaacccc 2640

ttccccataa aggcacagcc ttctccaccc tgacatcatg catgcacatca tgaggtacat 2700
ttgttataac tcatgtacta acactgacgt atcattatca atcaaattca tagttacat 2760
tagggttcac tcttggtgtt gtatattcca ggggtttga caaatgtata atgacatgt 2820
tctaccatta tagtatcatg cgaaatagtt tctctgcccc tcaaattccc tgcattccac 2880
ttattcatcc ctccctccat tccctaaat ttctggcagc cactgattt gtactgtctc 2940
tgtagtttt gcctttcca gagtgtcata tagttggtc atatacactg ttctatttt 3000
acagggtga ttaccccggt cagaattgt 2940
tgcaggcatt agcatggttt cattttctat 3060
aggccacaca tttttagt 2940
tgattcagta gcagcttcta cgagctgcc 3120
aggccacaca tttttagt 2940
ctggatgct ccattcctct ccaacaacat tgggttgaac cctgtgaaac agctgcctat 3180
gtgggtcagg catgcttaac tctatgccc ttccttaggt tcaccctaac cgaatcaagc 3240
tcccatccaa ggagaccatc caggagatcc tgcccaggaa ggtggcaaga gttttctctc 3300
actggcttaa ttttattttt gcattgcaaa tattttgtt atcatttcaa atccttttg 3360
gaaataaagc aggcaaggat 2940
taagtaaatg gtctgatagg tggaaataga gtgtgctcct 3420
cccaattgt 2940
agatcaacat tgctaattggg atccctcaca caggtggctg ggagtggat 3480
ggataaatct caaaactacc tgggagagct ggcactttt ctactgttt tctaatacca 3540
acaactttcc aaacacaccc 2940
aggaggctat ctctccctcc ccacccgatg agttcatgat 3600
gttaaattaa ttgcataatt cacctaattt 2940
acagtattga cagatggccc tggtaagat 3660
agagtgtat tgggttaca caagtaacat ttattttattt ctggcactgt aattacaggc 3720
agtaaattaa attaaatatt aagcattaac ttgaaatcaa tagggcaaca aatctcatta 3780
tgagaaaaaa tggatattgc aaattttttt cagaattttt tcatcatgaa taatggctc 3840
attacgagaa ctatacagca gaggaggcaa cagagttga aagaaacata acactccagc 3900
acattctgat ttcaaaaattt atgcaaaata ttcttacagt ttttagtgtca aagaggattt 3960
gctcaaaaact ccagagaagc ctgtgaccca ccacagcctg gttcccccctc gccaacctcc 4020
tcggacttta ttaagggtctg tctgctgaag tggctctggg ccaggactgg cacagaccag 4080
acttcctgct ccatttgc 2940
tcccgattgt gcctgatttg ttgtttctgt ttcttatctg 4140
aatttgcctt gccccttaggg aaaccaacaa cttagcctcg gccttcatgg ttgaggaaat 4200
tcatccaaaa gaggcaataa aagggttttag tcagtagaaa gaacagtctt ctcaagtgaga 4260
tagggccaca ctgttctctc tcattttca ctaagggtc cttcctgggt gtgtcagaca 4320

tatagctgg tctgactcac tcacaaccta tcgtttctt ttttctctga ccattgccct 4380
catcaaagtg ccccaaaca aacaatttgg atcagcctct ttatgagtcc agaatgactg 4440
ccctgctatg gacagcctta gctagcattt cttacaagg aaaaataaga ggccattagg 4500
atgttccaa cagacagatt tctcgccct tccagggcat tctcctcttc tttgcttcc 4560
ttaattccag agtgaggagt cggtctcctc tttccacgc gtgctcaactc aggcctctcc 4620
caagtctgtg agcacagcct gcaaacacccgtacacagcc ttctgcatgc cacagtca 4680
tctcactaca gctgcctgac aaaccctgct tgtttgcattgcttaagta tttcctttag 4740
gagctgaaga ttcccagaag aaaacatttggaaatccagag ggaatcaaataaaactcct 4800
gacgtgaagg cccaggagta agtagcagag gctgcaaaca aaatgttttaccaggacc 4860
aagggggctt ggaaaatgtg gcaaatgtcc tccgaatggc tatttgtgaa ctctcagagt 4920
acatatcagc tggttggagc ctataataat tggtttatcc actgtattga aatttgcttt 4980
ataaacaaaa tttaacaggg ccatagaaca caatggacc ttccctcaga tttaagctca 5040
atattccaga attctctgcc acctaagagg caacttggtttgaatcttact gacctttgt 5100
aacactcact ctttacctgg tggttgagcc agaagctggg aatttctggt cgccctcgat 5160
ctctcaacac gttgtccttc atgcttcga cacaggggtg ctcccgacc ttggAACCAA 5220
atggaggctc ataatcttt acttctgtga agaaagccag caaacacagg gtcactgaga 5280
atggcatgtg cagccaaagg aaatgagcat ggtgagatgc ctggctgggg agcatgaagc 5340
actaagtaac aaatacatac gtaattactc taagagcaaa ttttaataat aatggctaag 5400
ataagaagga aggagtggtt ggggaagggc tagagaagta ttcaataat gattgttgag 5460
tacttaaaat gtgcttaggtt ttatgctggg ggacacagtg gacaacaaga tagagagggt 5520
cacggagctt aggttttaac acaggcattt tctacagggg gatattgcag caaaagggtg 5580
aaactggttc ttgggaagtg gaaaaatctt atgtattaca atggttgtg agcctccaaa 5640
ggcccagagt atacaaagag atttaaaatg tggattaaa tttcatgttag gtattgaggc 5700
ataaaaagga atgaaactct ggcacatgct acaacatgga tgaatcttga agacattatg 5760
ctaagtgaaa taagccagac acaaaaggac aaatattgtt tcattccact tgtatgaagt 5820
accttgtaca ggtatattca gagacagtat aatggtggtt gtccaggggg caacctggga 5880
ggaaagggtt ggaaaagtta tccttaagg ggtaaagaat ttcagtttag caaatttcag 5940
tacagaaaaa tgaataatgg tcatgggtt agagcactgc gaaggtactt aatgccagta 6000
aactgtacac ttaaaaatgg ttaagatggt acattttata ttatgcctat tttgctacag 6060

aaaaacatca tggagagtag tggtagaaa aaaagttgtc tacaggccag gtgctgtggc 6120
tcatgtgtgt aatcccagca ctttaggagg ctgaaggagg atatcttgc tccggagtt 6180
tgagaccaac ctggcaaca tagcgagatc ctctatctat acaaaataaa aaacaaaaca 6240
agcaaacaaa aaaagttgtt taaaaaggct cttacgata tcactgatt taaaaaaggt 6300
tgagaaatgc tggtagtg ggaagacaga gggacagat taacaacatc aacaaaattt 6360
taaaacgata atttcctct gatggatat tcaataaaga aaatgataaa ggaggaggt 6420
acccttcacc ggggcctcag gcttcaacta aggtcaaatt cttataaaa acttccttga 6480
acatccttag ggtcaatctt ggttagatat cctggcagg gctctattcg tgcataacc 6540
atattttatt taatatattc acctgcttat ttttctcacc taactggact gtgagcattt 6600
gggtgcaagt tgggtccctt tctcattttt gtattcttgg tgccattgc aagggtctcc 6660
catgccaaca ggctgtcaac aaatgctttt gttgggtggat gaatgaatga atgaatgaat 6720
gaatcttaga ttctctccaa agtggcagtg cataaactct ggccaaacat taaaacaaa 6780
caccaattta aatgagcaga ttaatatagt gtaaacagag cacaggacac taaaaaagat 6840
agaaaaacatc ccagtactaa aacatgcctg ggctgaaagg agagattggg ctggattcaa 6900
cactgttctc caaagtaagt aggatcttg gccttagct tcaaaataat cttatataat 6960
gagtaaaact ttcaatacat ttgcacttct aggtaacgaa ttgaagaagc tttcatggca 7020
agatgacatt ttgaaaaggc acggcttggtt tttgttctt gttcatttgc tttttcccc 7080
ttttccagaa ctctacttga atatttatct tttcagctt caccaatag tagagctgcc 7140
aggatatttt ctttttata gttttaata cagggaaatt tggatgaag gcctccatc 7200
acattaagac aaaccacaaa ctatcctct gtgtgtcatg cttttgcct caaaggaccc 7260
aagcatttaa tccacattgc tcttgggtga gatctgaatt gtgatttgca tagcatttat 7320
actcttattt tttctttca ttcttatct tcaaccagac tgtaaatgcc taaggcaca 7380
ggcagtggct gaatttggtg tcttcactt atctgctcag tgcctaaaat cgtgccttat 7440
acgttagtaag aatttaataa atatgagttc ggttgaattc aagcaaaaga gaaaactgag 7500
aatcagatct ggttcccaagt aagtgtttac tctcatgtac ttcttctttt ctataaaatg 7560
aatatactga actgagctac ctccatgttc ctcttcagat ttatcttgc atccaatcta 7620
atcaaataatg atgccccctt ggtaccatac cttgagatat atgtactacc atataatagt 7680
aaaggatagg atttggatata gatataaatt gttccttgc taaggatcag tccacagacc 7740

ttccatctc aattgtttg gcttatgtag cagctgcagt tggtgcctgc caaggtcccc 7800
ttgaccaagc tagggccagc agcctacagc tgccacaggt gttggctcat aagggctcac 7860
accttcaccc ttttctgggg gattgtcctt ggccaatggg agttgcttat cctagagatt 7920
cgtggacatg accgccttac tctcagaggc agcgtatagc cgatgacaaa ttaatgttga 7980
agtttaacag tccaaattctc ttggctttg gtggtaact atggtcaat tcacactctc 8040
cagagcttcc agtgagatca agctgaggtt agacctctt tgaaatacaa gttcacttaa 8100
ctccttccat gcctcttccat gcttcttta cttccttctc atgagagctt atcctcaata 8160
aatcattgca caaaagtgtg tcagactcca cttctagtaa agctggccca acacagccgc 8220
caaggaagtg ctttctcctc tctccctagg cctttgtctc agtgaatctg cacaatctga 8280
ctgtagctgc aaagctaccc tggggaaagcc ttgatgttagc cccttcttgt gaaggtgaaa 8340
ttactaaacc aggaagaaca ttctgaatct cacattgtat taccgttact ctgatgaaac 8400
tccttacct ttctagaaag ctttcatgct ttttccttc taccaagcat ttcatcagagt 8460
tctttctcct ctgactatca acaacaatcc ctatactcat ggtcagaagt gacagaggag 8520
gacatgacca acatcagagg aggaaaatgt tggatcaga ataaacccca gctgtcaatc 8580
tcatggctga tagtccttga gaacaaagac aaagtcttg tccttgagac tataaacgca 8640
gagccaattc attccaagtc ctaatcttcc tagttacaaa cactacacaa tttattgtaa 8700
tttttttat aggtactctg tggatcaaag caagttcca tggggatga gagaagatgg 8760
cattggccat attttactt aaagaaaaat taatgaatgc tattttagaa aggaagacaa 8820
aggcaataat ccctcccaa aacaaacaga cttataaata ggttacttcc tactttcct 8880
aaaatcttgg aaagttgtga gactccctaa tattcccaag ggatacaagg cctgcttccc 8940
atcttcgact tatggtaat ttcacaagga agggaggtca cgggttagtct gaaaggtgct 9000
ggcaaaagga ctggctcctt gtgccttact gggagaattt atgactttc tgccctctcc 9060
taagcttaaa atagacaagt ctggggaggg aggatcatca tttgaccaa actgtcatac 9120
tctaattcctt taatattagt ttttcagatt aggagtacgg atggggatct gcagtgtgtg 9180
catgatttag gctgaccttt ctttaacttc tgaaaaatgt cctatttatg taacatagat 9240
tttccaaaac agctaaatgc atgttgctt ttttcttct aattatggat ttttgcattt 9300
cttctttctt tacccttctc tctcattttg gacatcctac tcccaacctc cattttttt 9360
tttctcatgc cctgcaatgt gtaggaagat ggttaatgt ttggcagtgt gtatacatgt 9420
gcctctcagt taacatctt gatattcaat tgcagcgatc aggcaacatt gctcatttt 9480

cctactatgg ccattaaggc aatgccattc tcagggcctc cattaggact tgtaggatga 9540
ccatgtaaca tggaggccag tccctcctgg agggcatttc ttaattgctc ctcaagtctca 9600
agtgtccctc agaatgcctc agatatttgc tttgactcag cagaagaagg gaagatcgtg 9660
gccagagata gcctgaaccc tgcgagagga ggttagaaag cagaaagccc tctgccagcc 9720
aggtgggtac caatggtcgt tcctaggatg agacccatg taacagagcc caggcagtcc 9780
tggggaactg gacagagctg gtgattggca acaagttgat ggcctgagac ctttgacact 9840
cccaactttt tccccagggt ttcaggcagc tggagactgg gatgttaat ccactttggc 9900
aaaatcttg ggtccaaact gtgtatctta tttattttc atgatggtgc taaaaatatt 9960
tttattttgg aaaatgcattg tgattaaaac tatgaaatga ctaaacaat atgtataaag 10020
aaatgtaaat ctctccccaa ctccctaaacca ctgtttcttt cacaaaagtg gcttaggtgg 10080
aatagtgaga ttaaaagtga ttaaaatttt tcccttatta cttgcaaatg agcaactctc 10140
aatcaatttt ttataaaagc ccagatgttt tgccctcaat tcattggaa taaaggcttt 10200
ggtaaaatac agtagaaatg aattacaaga aaaatgaatc ccacttgagt gttgtggcaa 10260
catcaaactg ctattaaagg cacaaaacac atcttggttt ctgtccttat attgcaaatc 10320
tgtaacagag agttttagga ccagcacctg ccaaagacca cacttggagc aacattgccc 10380
taaatgcttc ttaaggaatg tgagatgcat tttgacacag gaaaaaagag cacaagttat 10440
taaacatatt ttaagggttt caaatgagtc agacaaagaa tattgaaaag gtcttcagag 10500
acgggatcca acatcctcat tttacagttg agaaaactga ggcccaaata gtacactgga 10560
ttccaggaag agcatttaga attgtgcact ttattactgt tactctgaag aaatttgcct 10620
ttgcctttt aggaagcttt catgcttgct catctctgcc aagcattgca gagatttctc 10680
ccctaaccag agcaagtaca gctggggcag tccctggtat gaacatgccc ttcccaaatg 10740
tgacaagtgt gtccctccct gccttgatgg ggccctcctc agcataacaac cttgagaagg 10800
ggaaccttat gggatctgct gggtggttgt tatttgtaat ttctaaagcca gctatgcaaa 10860
aaaacaatta caaagagcag ccctctcattt agctggattt atttacccac attaaaccca 10920
aacacttgc ctttctgggt ttaggaaagt agatgtgact ggtgggtggag gtgaggtaaag 10980
gatgagaatc tcattttgc tacaggcatc agattgggc atagttggca atagaattaa 11040
tgcaagtccct ctttgcacat ttgatcaaattt gatgcttgac cttggggcctc tctcttgta 11100
agaactgcat aaaaagcaag ttcaggagtg tggggctga gtccagagaa aatgttacac 11160

ctggctaacc tataacaaga accaccttt taaaaaaaaat tggaattgcc tctaagagaa 11220
aaagcgaagg ctttagaggt atgactgagt ttagcacttc aaaagtggaa gagctaacaa 11280
tatgcattgt aagtattatt tggtgtttt gccctgactc cttaaaaag tagatatgag 11340
gacttagaaa agagatgcc aaggttgtg cctcacttcc tatatccaca aaataagaat 11400
agtcacatat gccccctaca attattcagt gtgatgctgc agggccagct gcaccgccac 11460
ctcccaaccc cattgcactg gctctccgg ttaggctggc ccaactccag gaggaacagg 11520
cagaaggcgt ggagtgaacc ctcccagctc ggcctggagc agccctccag caaactgatg 11580
ggaattggaa agataaaaca cccagcttcc tttgagtcag gtggatgac actgagggtgt 11640
gtgttctgct cgtagttata ctccagttgc ccatgggtt aacccacttg ataagatatac 11700
cttactggc ttccctccct ttccctgactc atttcctcat tctcttactg gcatttccctg 11760
caatctttc ccaaataaac tactagttact caaattcttg ttccagggtt ggaggcactc 11820
caccaagac atatgcctac acagcagaat tagttcatca aaccaagtct ttgtctcacc 11880
ctcagactgt ttctgaagcc agacagacgg ggctgaacac ctcagaattt ccctgagtg 11940
ctcaaacggc atcttttcta aaaaacctct ttatttact gcttgagaac gactttctct 12000
tacttccatc tccctccgc cacctctctc tgcagtcttt tcactgatgg aagccacccg 12060
caaccgccccg gccctcgagc cttctttaa tttgtctcaa aaggctctta agagaaaact 12120
acgcttgccct gtctcttccc agttccacaa ccctcagagg gcaggtctct gggacagcaa 12180
tggtattcct cggaaagtca gcatctggtg cacagctgct gttttgactg tagtccaat 12240
gtaacagggc agcaaagttg ttgatggttt tccccaaagc agtaccccg agttttcata 12300
tctgcttcc agactgtgct ccctgaaat ccagggaaat gaagcgtttc aatcctggtc 12360
tctcctcagc cgtctctcca acgcctcctt ttttctgtc tctttcttcc cccagccct 12420
tccctttctt tttggttcat ttgcactttt tttttttttt tttttttcat ctcacaaggc 12480
tgcaagcaact tgacaataca ctaaggagcc cttcttggag ttgtgttgct cctcataaa 12540
tacttggttca gctggctgct acgtgtcagc ttctattcaa aggcttaaat gctagggatg 12600
tggaagtca gttgtttttt ggcctttttt gctggggatg acgagagttt tttgcctgct 12660
gtgttcacca aaggggggccc tgaacaggac cgccttcacc cgccttcacc cgccttcac 12720
acaacacaca aacacttgta tgaacaccaa acagactgaa agcctgggac agagatttct 12780
ttgtaaaaga gaagccatct ccagttctgt ctttgctgaa tggcgatttc atgaagctt 12840
ttctcctttt tcgtagaaca gtaacacacc aatcacctcc tcttgtcttg ttcttacttc 12900

aaacaattct gaaagatttg ttttctttt tttttctttt gtattcttc agaggattaa 12960
aatgtctgaa atgacagcct ctttcattat ctatccccca agtctatTTT tctttctaaa 13020
atcatccac ccacccacc caactccaac attatattac ataatcttt tgttcattac 13080
ctgtccctaa aatactggct cttcaactaga cttcctgtct ctcaaagaaa gacactgctt 13140
tttaaactgc tgtatccctg gcattttaaa caatgcctgc gacacaatag gtactcaata 13200
aatactttt gagtgaatga atgaataat atatctttag ggaaataaaag ataaaacagt 13260
tatctcaaAT tttaaggtat caatactgtg acctgctaca caaattaaca gccttgatt 13320
ctgttaacag ggattcaccc agagaagtga ggccatcact gaatgttctt caaacatgtg 13380
attgtctcct cagcttctgc tggaaggctt catatctact gccaggatgc acagagtagc 13440
tctgactatc gtatccatac tgatcatagg aatcatagct actattttt ttggggggcg 13500
ggggggatgg agtctcgctc tgtcgccag gctagagtgc agtggcacga tctcagctca 13560
ctgcaacctc cgcctccgg gttcaagcaa ttctctgcct cagcctttt agtagctgct 13620
attacaggca cccgcccacca tgcctggcta atattttaa ttttagtaga gatggcattt 13680
caccatcttgc cccaggctgg tcttaaactc ctgacccat gatctgcctt cctcagcatc 13740
ccaaagtgc tggattacag gcgtgagcct gtacctgtac atggccatag ctactatTTT 13800
aaatacgttc tccatggcc aggctagcag tataccagga atactaaggc ctgtgagcta 13860
cagagtcaGA caacagggtt ttgatccctg gctccacaac tttcgactt cctgaggctt 13920
cagttctttt attgtaaaat gggattaata acagtacagg cctcaaagag ttttggtaga 13980
ttaaatgagt tgatgtgtgg agcaagtgc taagaagtgg taattattcc tttatggctt 14040
tctttatctg gaccaaatgt actttca